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मानक

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Jawaharlal Nehru

“Step Out From the Old to the New”

IS 2566 (1993): Textiles - B-twill jute bags for packing foodgrains [TXD 3: Jute and Jute Products]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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IS 2566 : 1993

भारतीय मानक

REAFFIRMED

वस्त्रादि — अनाज भरने के बी-ट्विल पटसन के बोरे — विशिष्ट <sup>FEB 2006</sup>

( तीसरा पुनरीक्षण )

*Indian Standard*

TEXTILES — B-TWILL JUTE BAGS FOR  
PACKING FOODGRAINS — SPECIFICATION

( *Third Revision* )

First Reprint JUNE 1993

UDC 621.798.151 : 677.13.074.162.5 : 633.1

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BUREAU OF INDIAN STANDARDS  
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NEW DELHI 110002

February 1993

Price Group 2

## FOREWORD

This Indian Standard ( Third Revision ) was adopted by the Bureau of Indian Standards, after the draft finalized by the Jute and Jute Products Sectional Committee had been approved by the Textile Division Council.

This standard was first published in 1963 and revised in 1965 and 1984. This revision has been prepared to upgrade the performance of jute bags, at the request of Food Corporation of India to minimize wastage of foodgrains. The following are the major changes incorporated in this revision:

- a) Tolerances presently specified for ends and picks per dm will have been tightened.
- b) General requirements and criteria for conformity have been laid down in IS 9113 : 1993.

The mass of bags of different sizes at various moisture regains are given in Annex B for information.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

**AMENDMENT NO. 1 MAY 2002**  
**TO**  
**IS 2566 : 1993 TEXTILES — B-TWILL JUTE BAGS FOR**  
**PACKING FOODGRAINS — SPECIFICATION**  
*( Third Revision )*

[Page 3, Table 2, Sl No. (vi), col 4 ] — Substitute '3' for '8.0' .

( TX 03 )

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Reprography Unit, BIS, New Delhi, India

**AMENDMENT NO. 3 JULY 2004**  
**TO**  
**IS 2566 : 1993 TEXTILES — B-TWILL JUTE BAGS FOR**  
**PACKING FOODGRAINS — SPECIFICATION**

*( Third Revision )*

*( Page 1, clause 1 )* — Substitute the following for the existing:

**‘1 SCOPE**

**1.1 This standard prescribes constructional details and other requirements of jute bags for packing 100, 93 and 75 kg foodgrains.**

**1.2 The bags specified in the standard shall not be manually handled after packing foodgrains.’**

**( TX 03 )**

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Reprography Unit, BIS, New Delhi, India

## *Indian Standard*

# TEXTILES — B-TWILL JUTE BAGS FOR PACKING FOODGRAINS — SPECIFICATION

*( Third Revision )*

### 1 SCOPE

This standard prescribes constructional details and other requirements of jute bags for packing 100, 93 and 75 kg foodgrains.

NOTE — Jute bags for packing 50 kg of foodgrains are covered by IS 12650 : 1989 'Specification for jute bags for packing foodgrains 50 kg'.

### 2 REFERENCES

The Indian Standards listed in Annex A are necessary adjuncts to this standard.

### 3 TERMINOLOGY

For the purpose of this standard, the definitions given in IS 5476 : 1986 shall apply.

### 4 MANUFACTURE

4.1 The bags shall be made from cloth conforming to IS 3667 : 1993. It shall be made from a single piece of cloth preferably the warp running along the length of the bag.

There shall be a single blue stripe ( or stripes ) of single or double warp as agreed to between the buyer and the seller, woven along the length of the bag. Additional woven identification mark may be provided if required by the buyer.

#### 4.2 Hemming at the Mouth

Provisions of IS 9113 : 1993 shall apply.

#### 4.3 Seam

4.3.1 For bags with hemming at the mouth, the sides of the bags shall be sewn with overhead or herakles stitches on selvedge through two layers of fabric ( see Fig. 1 ). The stitching shall be of even tension throughout with all the loose ends securely fastened. The number of stitches per 10 cm at the sides shall be between 9 and 11 ( see also IS 9113 : 1993 ).

4.3.2 For bags with selvedge at the mouth, the stitching of the raw edges of the bag shall be done after turning to a depth of 38 mm, with overhead or herakle stitches through four layers

of the fabric ( see Fig. 2 ). The bottom of the bag shall be stitched at selvedge through two layers of the fabric with overhead or herakle stitch as the case may be ( see also IS 9113 : 1993 ).

#### 4.4 Joined Bag

Provisions of IS 9113 : 1993 shall apply.

#### 4.5 Freedom from Defects

The bags should be generally free from weaving and sewing defects which effect the performance of the bag, such as holes, cuts, tears, floats, crushed selvedges, spots, stains, gap stitches, loose ends and frayed ends.

### 5 SPECIFIC REQUIREMENTS

5.1 The bag shall conform to the requirements specified in Table 1.

5.2 The bales containing the bags shall conform to the requirements as laid down in Table 2.

5.3 The contract moisture regain shall be 20 percent.

### 6 PACKING AND MARKING

#### 6.1 Packing

The bags shall be packed in bales as laid down in IS 2873 : 1991 or as specified in an agreement between the buyer and the seller.

#### 6.2 Marking

The bales shall be marked as laid down in IS 2873 : 1991. Additional marking shall be made as stipulated by the buyer or required by the regulation or law in force.

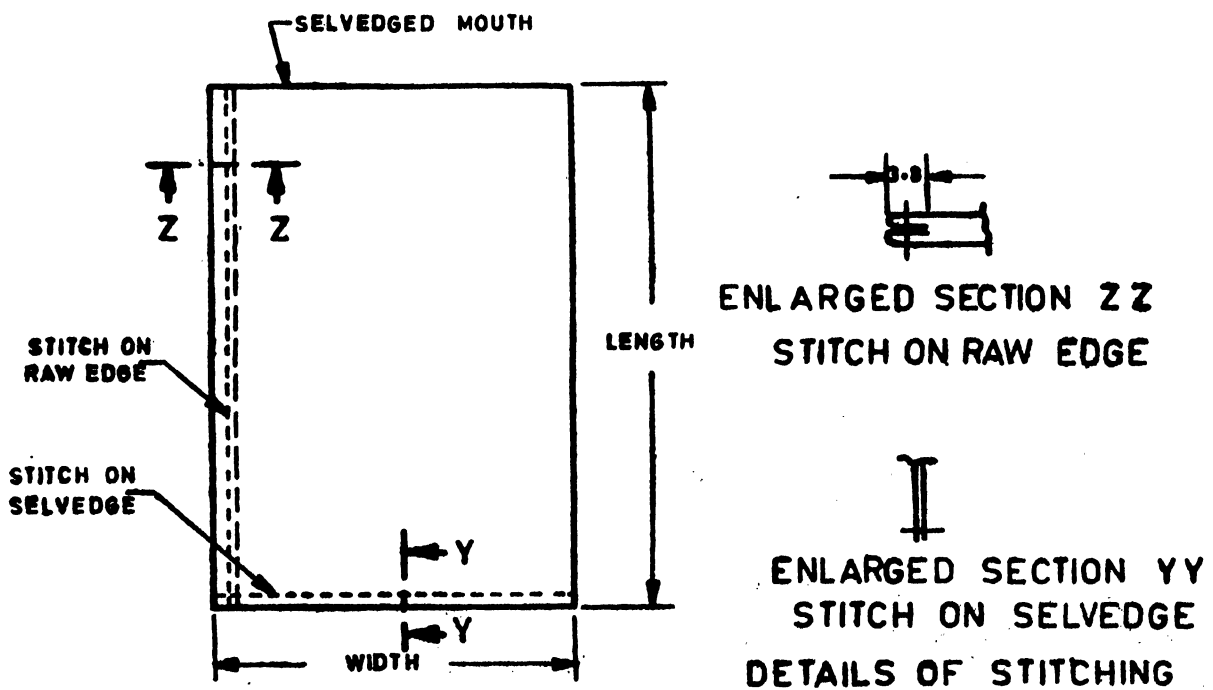
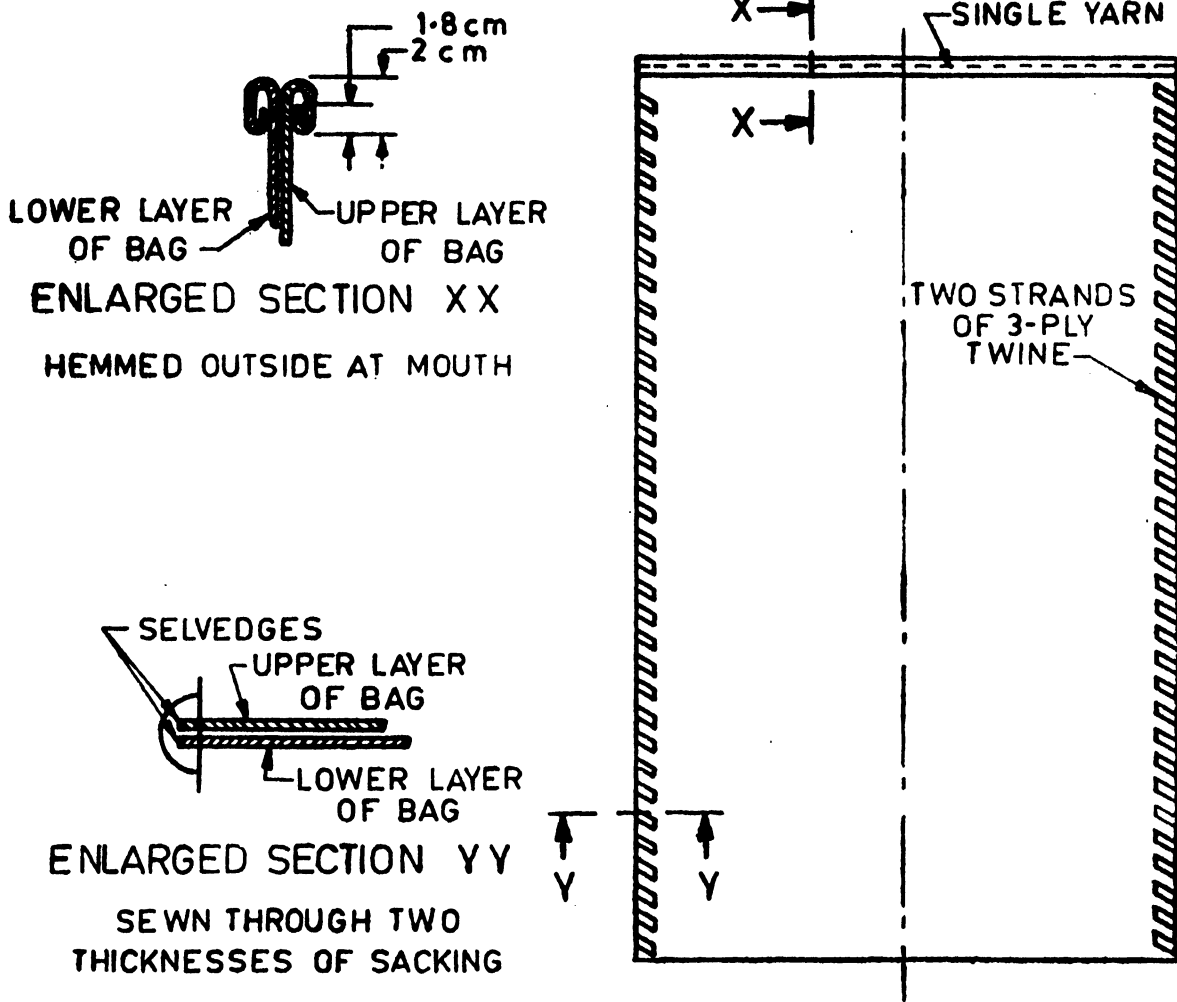
6.2.1 The bales may also be marked with the Standard Mark.

### 7 SAMPLING

7.1 The sampling shall be as laid down in IS 9113 : 1993.

7.2 A lot shall be considered as conforming to the requirements of the standard if the conditions as laid down in IS 9113 : 1993 are satisfied.





All dimensions in centimetres.

FIG. 2 CONSTRUCTION OF A TYPICAL SELVEDGED BAG ( BAG LENGTH = CLOTH WIDTH )

**Table 1 Requirements of B-Twill Jute Bags for Foodgrains**  
( Clause 5.1 )

Sl No.	Characteristic	Sizes			Method of Test
		100 kg	93 kg	75 kg	
(1)	(2)	(3)	(4)	(5)	(6)
i)	Dimensions ( see Note ):				
	a) Outside length, cm	122	112	106.5	IS 1954 : 1990
	b) Outside width, cm	67.5	67.5	61	
	Tolerance, cm		+ 4 - 0		
ii)	Corrected mass per bag, g:				8.5.2 of IS 9113 : 1993
	a) Overhead stitch	1110	1020	880	
	b) Herakle stitch	1115	1025	885	
	Tolerance, percent		+ 10 - 7.5		
iii)	Ends per dm		76		IS 1963 : 1981
	Tolerance		+ 4 - 3		
iv)	Picks per dm		31		IS 1963 : 1981
	Tolerance		+ 2 - 1		
v)	Breaking load of cloth ( Min ) ( revelled strip method, 10 × 20 cm ):				IS 1969 : 1985
	a) Warpway : Average		1570 ( 160 )		
	b) Weftway : Average		1620 ( 165 )		
vi)	Seam breaking load ( Min ) ( revelled strip method, 5 × 20 cm ) N ( kgf ) Average		608 ( 62 )		IS 9030 : 1979

NOTE — These are recommended sizes for packing of different mass of wheat, rice and similar coarse grains. For other materials packed and if desired by the buyer and the seller dimensions other than those specified above may be adopted. In that case, tolerance of  $\begin{matrix} + 4 \\ - 0 \end{matrix}$  cm shall apply.

**Table 2 Requirements of Packed Bales of B-Twill Jute Bags**  
( Clause 5.2 )

Sl No.	Characteristic	Sizes			Method of Test
		100 kg	93 kg	75 kg	
(1)	(2)	(3)	(4)	(5)	(6)
i)	Total number of bags per bale	300	300	300	8.9 of IS 9113 : 1993
ii)	Number of joined bags per bundle of 25 bags	1	1	1	—do—
iii)	Contract mass of a bale, kg:				
	a) Overhead stitch	333	306	264	
	b) Herakle stitch	334.5	307.5	265.5	
iv)	Correct net mass of a bale	Not less than the contract mass			8.1 of IS 9113 : 1993
v)	Moisture regain percent, Max		22		8.2 of IS 9113 : 1993
vi)	Oil content on dry deoiled material basis, percent, Max		8.0		IS 2969 : 1974

**ANNEX A**  
( Clause 2.1 )

**LIST OF REFERRED INDIAN STANDARDS**

<i>IS No.</i>	<i>Title</i>	<i>IS No.</i>	<i>Title</i>
1954 : 1990	Methods for determination of length and width of fabric ( <i>second revision</i> )	2969 : 1974	Method for determination of oil content of jute yarn and fabrics. ( <i>first revision</i> )
1963 : 1981	Methods for determination of threads per unit length in woven fabrics ( <i>second revision</i> )	3667 : 1993	Textiles — B-twill jute cloth — Specification ( <i>second revision</i> )
1969 : 1985	Methods for determination of breaking load and elongation of woven textile fabrics ( <i>second revision</i> )	5476 : 1986	Glossary of terms pertaining to jute ( <i>first revision</i> )
2873 : 1991	Textiles — Packaging of jute products in bales — Specification ( <i>first revision</i> )	9030 : 1979	Method for determination of seam strength of jute fabrics including their laminates
		9113 : 1993	Textile — Jute sacking — General requirements ( <i>first revision</i> )

**ANNEX B**  
( *Foreword* )

**MASS OF B-TWILL JUTE BAGS AT DIFFERENT MOISTURE REGAIN VALUES**

<i>Moisture Regain Percent</i>	<i>Mass, in g, for Size of Bag</i>					
	<i>100 kg</i>		<i>93 kg</i>		<i>75 kg</i>	
	<i>Over-head</i>	<i>Herakle</i>	<i>Over-head</i>	<i>Herakle</i>	<i>Over-head</i>	<i>Herakle</i>
22	1 130	1 135	1 037	1 042	894	900
20	1 110	1 115	1 020	1 025	880	885
18	1 092	1 097	1 003	1 008	865	870
16	1 074	1 079	986	991	851	856
14	1 055	1 060	969	974	836	841
12	1 037	1 042	952	957	821	826
10	1 018	1 023	935	940	807	811
8	1 000	1 004	918	922	792	796
7	991	995	910	914	785	789
6	981	986	901	905	777	782

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